CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.04/LLR/CSR-05/048b/CEMENT/2016-17 Date: 27.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
*NAME OF THE WORK	:	Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	25.05.2016
PERIOD OF TESTING	:	25.05.2016 to 27.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-05/048b/SAND-Gradation/2016-17 : 27.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of Work	: Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 25.05.2016
Date of Testing	: 27.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.10	90-100	90-100	90-100	95-100
2.36	77.60	60-95	75-100	85-100	95-100
1.18	55.80	30-70	55-90	75-100	90-100
600 Micron	26.80	15-34	35-59	60-79	80-100
300 Micron	12.80	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.04/LLR/CSR-05/048b/AGG/GR/2016-17 : 27.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of Work	: Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 25.05.2016
Date of Testing	: 27.05.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	*Specific Limits as per IS :383-1970 (RA- 2007)*	
		Graded	Single Sized
40	100	100	100
20	96.90	95-100	85-100
10	37.90	25-55	0-20
4.75	4.90	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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T-2377

Job No.: CTCE/BBMP/W.No.04/LLR/CSR-05/048b/CC Solid Block/2016-17 : 03.06.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of the Work	: Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
Sample Received on	: 27.05.2016
Date of Testing	: 03.06.2016
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.16	258.3	3.23	
2	Block 2	35.26	259.6	3.25	
3	Block 3	34.85	260.2	3.25	
4	Block 4	35.16	261.2	3.27	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
5	Block 5	34.89	262.5	3.28	
6	Block 6	36.36	259.8	3.25	
7	Block 7	35.15	260.1	3.25	
8	Block 8	34.10	261.5	3.27	

*Information is furnished by the Customer/Representative.

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Ravi Sanjeev AE

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No: CTCE/BBMP/W.No.04/LLR/CSR-05/048b/CC Solid Block/2016-17 : 03.06.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
* Name of the Work	: Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
Sample Received on	: 27.05.2016
Date of Testing	: 03.06.2016
Size of Blocks	: 400mm x 100mm x 200mm
Cross Sectional Area	: 40000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	17.89	128.9	3.22	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	18.25	130.2	3.26	
3	Block 3	17.36	131.2	3.28	
4	Block 4	18.56	132.2	3.31	
5	Block 5	17.89	130.5	3.26	
6	Block 6	18.28	128.3	3.21	
7	Block 7	17.59	129.6	3.24	
8	Block 8	18.36	130.2	3.26	

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Job No.: CTCE/BBMP/W.No.04/LLR/SDBC/Bitumen/2016-17 25.06.2016

GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS : 2386 and IRC : SP : 11 - 1984

CUSTOMER	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY	**Mr. L. Lokanatha Reddy,** No.5, 1st H Main Road, 7th B Cross Road, Kaveri Nagara B Block, Kaval Byrasandra, Bangalore.
NAME OF THE WORK	Asphalting to Cross roads and Main roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
REFERENCE	BBMP/AEE/YNSD/74/2016-17 Dated: 25.05.2016
SAMPLE I/D	Roads in Someshwaranagara in Ward No.04, BBMP, Bangalore.
DATE OF TESTING	25.06.2016

GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	26.35	5.51	5.51	94.49	90-100
4.75	249.6	52.16	57.67	42.33	35-51
2.36	54.39	11.37	69.04	30.96	24-39
1.18	52.32	10.93	79.97	20.03	15-30
0.3	29.65	6.20	86.17	13.83	9-19
0.075	38.52	8.05	94.22	5.78	3-8

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	29.65	6.22	6.22	93.78	90-100
4.75	252.6	53.01	59.23	40.77	35-51
2.36	54.36	11.41	70.64	29.36	24-39
1.18	43.36	9.10	79.74	20.26	15-30
0.3	26.31	5.52	85.26	14.74	9-19
0.075	36.36	7.63	92.89	7.11	3-8

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